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## NOTICE OF ALLOWANCE AND FEE(S) DUE

27885

7590

10/06/2009

FAY SHARPE LLP 1228 Euclid Avenue, 5th Floor The Halle Building Cleveland, OH 44115

EXAMINER					
DIAZ, JOSE R					
ART UNIT	PAPER NUMBER				

2815

DATE MAILED: 10/06/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,473	08/01/2006	Ivan Eliashevich	GLOZ 2 00201	6709

TITLE OF INVENTION: OPTIMIZED CONTACT DESIGN FOR THERMOSONIC BONDING OF FLIP-CHIP DEVICES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/06/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrected in the maintenance fee notifical indicated in the maintenan	correspondence includir ed below or directed oth	ng the Patent, advance or nerwise in Block 1, by (a	ders and notification of a) specifying a new corre	maintenance fees w espondence address;	ill be maile and/or (b)	ed to the current c indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fe par	e(s) Transmittal. This	s certificate paper, suc	e cannot be used for the as an assignmen	domestic mailings of the r any other accompanying t or formal drawing, must
FAY SHARPE 1228 Euclid Ave The Halle Buildi	enue, 5th Floor ing	/2009	I h Ste ade tra	ereby certify that thi	s Fee(s) Tr	Mailing or Transmansmittal is being nt postage for first UE FEE address a 73-2885, on the date	deposited with the United class mail in an envelope bove, or being facsimile te indicated below.
Cleveland, OH 4	4115						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNE'	Y DOCKET NO.	CONFIRMATION NO.
10/588,473	08/01/2006		Ivan Eliashevich		GLO	Z 2 00201	6709
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nonprovisional	NO	\$1510	\$300	\$0	TEE TO	\$1810	01/06/2010
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EXAM		ART UNIT	CLASS-SUBCLASS	_			
D1AZ, J	OSE R ence address or indication	2815	257-079000  2. For printing on the				
FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON T			(I) the names of up to agents OR, alternate (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be	tively, gle firm (having as a agent) and the name corneys or agents. If r e printed.	member a	12 3	
	ess an assignee is identi h in 37 CFR 3.11. Comp		•	patent. If an assigne n assignment.			cument has been filed for
lease check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🗖 Co	rporation o	r other private grou	p entity 🗖 Government
	are submitted:  To small entity discount p  # of Copies	permitted)	D. Payment of Fee(s): (Plo A check is enclosed. Payment by credit ca The Director is heretoverpayment, to Dep	ard. Form PTO-2038	is attached	1.	nown above)  ciency, or credit any extra copy of this form).
a. Applicant claim	<b>tus</b> (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lo	-			
NOTE: The Issue Fee and naterest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than Office.	the applicant; a regis	stered attori	ney or agent; or the	assignee or other party in
Authorized Signature				Date			
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n application. Confident ubmitting the completed his form and/or suggesti	tiality is governed by 35 I application form to the ons for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is e depending upon the indice. Chief Information Office.	stimated to take 12 n ividual case. Any cor cer. U.S. Patent and	ninutes to c mments on Frademark	complete, including the amount of tim Office, U.S. Depar	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/588,473 08/01/2006		Ivan Eliashevich	GLOZ 2 00201 6709			
27885 75	27885 7590 10/06/2009		EXAMINER			
FAY SHARPE LLP		DIAZ, JOSE R				
1228 Euclid Avenu	-		ART UNIT	PAPER NUMBER		
The Halle Building Cleveland, OH 44115		2815 DATE MAILED: 10/06/200	9			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 301 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 301 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/588,473	ELIASHEVICH ET AL.		
Notice of Allowability	Examiner	Art Unit		
	JOSE R. DIAZ	2815		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course. <b>THIS</b>		
1. This communication is responsive to 6/18/09.				
2. ☑ The allowed claim(s) is/are <u>1-7 and 11-16</u> .				
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Applicati	on No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>				
<ul> <li>5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t</li> <li>6. ☐ DEPOSIT OF and/or INFORMATION about the depo</li> </ul>	son's Patent Drawing Revie s Amendment / Comment o .84(c)) should be written on he header according to 37 C sit of BIOLOGICAL MAT	or in the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the		
attached Examiner's comment regarding REQUIREMENT  Attachment(s)  1. □ Notice of References Cited (PTO-892)  2. □ Notice of Draftperson's Patent Drawing Review (PTO-948)	5.	nformal Patent Application Summary (PTO-413),		
3. ☐ Information Disclosure Statements (PTO/SB/08),		./Mail Date s Amendment/Comment		
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		<ul><li>8. ☑ Examiner's Statement of Reasons for Allowance</li><li>9. ☐ Other</li></ul>		

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

The application has been amended as follows:

o Claims 8-10 and 17-18 have been cancelled as directed to claims

non-elected without traverse.

2. The drawings were received on March 2, 2009. These drawings are acceptable.

3. The following is an examiner's statement of reasons for allowance: the prior art

fails to teach, disclose, or suggest, either alone or in combination, a LED comprising an

epitaxial structure having a resistivity of less than twenty ohms per square and wherein

the first contract trace includes a first surface level and the second contact trace

includes a second surface level, the first surface level and the second surface level is

within a deformation range of a bonding gold layer as instantly claimed, and in

combination with the additional limitations.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Application/Control Number: 10/588,473

Art Unit: 2815

Correspondence

Any inquiry concerning this communication or earlier communications from the

Page 3

examiner should be directed to JOSE R. DIAZ whose telephone number is (571)272-

1727. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kenneth Parker can be reached on (571) 272-2298. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kenneth A Parker/

Supervisory Patent Examiner, Art Unit 2815

/J. R. D./

Examiner, Art Unit 2815